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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/047,407	01/10/2002	N-Guang Zhang	170239-00034	5262
7590 01/28/2004			EXAMINER	
Dorian B. Ke		ALEJANDRO,	RAYMOND	
Baker, Donelson, Bearman & Caldwell Suite 900			ART UNIT	PAPER NUMBER
Five Concourse Parkway			1745	
Atlanta, GA 30328				

DATE MAILED: 01/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/047,407	ZHANG, JI-GUANG	
	Examiner	Art Unit	
	Raymond Alejandro	1745	
The MAILING DATE of this communicate riod for Reply	ion appears on the cover sheet will	th the correspondence address -	
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4)(X) Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) 17-20 is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6) Claim(s) 1-16 is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on 26 November 2003 is/are; a) ☐ accepted or b) ☐ objected to by the Examiner, Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1 85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11\|The eath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

 Certified copies of the priority documents have been received.
 Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage

application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1 78 a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet, 37 CFR 1.78.

Attact	nment(s)
	Notice of Referen
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1) Notice of References Cited (PTO-892)

rson's Patent Drawing Review (PTO-948) closure Statement(s) (PTO-1449) Paner Nots)

4)	Interview Summary (PTO-413) Paper No(s)	
5) [Notice of Informal Patent Application (PTO-152)	
6.	Other	

Art Unit: 1745

DETAILED ACTION

Response to Amendment

This office action is responsive to the amendment of 11/26/03. The applicant has overcome the objections and the art rejections. However, the instant application is newly rejected over art as even below:

Election/Restrictions

 Applicant's election without traverse of Group I (claims 1-16) in Paper No. 4 is acknowledged.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 06/21/02 (paper # 2) considered by the examiner.

Drawings

The drawings were received on 11/26/03. These drawings are acceptable.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(c) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent of (2) a patient granted on an application fire patent to was positionated on an application for patent to was produced from the United States before the invention by the applicant for patent, except that an international application filled under the rest of defined in section 53(4) ability was the effects for purposes of this subsection of an application filled under the trust defined in section 53(4) ability was cheffetted for purposes of this subsection of an application filled under the rest of the state only if the international application designated the United States and was published under Article 2(c) of such treaty in the English language.

 Claims 1-5, 7-11 and 13-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Xing et al 6284406.

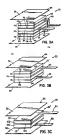
The instant claims are directed to a method of sealing a battery cell wherein the disclosed inventive concept comprises the specific sealing steps. Other limitations include the particular laminate layers; the heat sealing; the sealing of the battery surface. In addition, the product formed thereby is also claimed.

With reference to claims 1, 4-5, 7, 10-11, 13 and 15:

Xing et al disclose a battery embodiment wherein a battery 20 is contained within a package 34 formed of a flexible laminate material 36 (COL 3, lines 28-40). In reference to the outer package 34, it is disclosed that package 34 eneases cell 32, 32° or 32" is formed from a sheet of flexible laminate material 36. Broadly stated, the flexible laminate material is preferably multilayered and includes at least one layer of a metal foil and at least one layer of a thermoplastic (COL 4, lines 27-35). Xing et al further disclose that the metal foil layer is provided as a barrier to form a hermetic seal around cell 32. The thermoplastic adhesive and sealant is provided as an adhesive layer, which when heated, may bond onto itself or onto the metallic layer such that a hermetic seal is formed around cell 32 (COL 4, lines 35-40). It is further disclose that the tat hat heat and pressure are applied to the extending peripheral edges to cause the polymeric material and sealant material to soften and bond itself together to form a generally flance about the periphery of cell 32 (COL 4, lines 60-64).

Figures 3A-C below illustrate the steps for sealing the battery according to the aforementioned aspects, in particular, the use of a package 34 that encases cell 32, 32' or 32" wherein the package 34 is formed from a sheet of flexible laminate material 36 which is a Art Unit: 1745

multilayered arrangement of a metal foil and a thermoplastic material (COL 4, lines 27-40). It is noted that the layers are positioned over the top and bottom surfaces of the battery, that is the battery is placed between the top and bottom layers. Heat is applied to these layers and to the periphery of the cell for sealing the same. It is also noted that the top and bottom layers seals the majority of the battery top and bottom surfaces, respectively. It is further noted that the method of sealing the battery is inherent as the prior art's sealed battery required sealing steps for producing it as disclosed.



With reference to claims 2, 8 and 14:

Xing et al teach that the flexible laminate material is preferably multilayered and includes at least one layer of a metal foil and at least one layer of a thermoplastic (COL 4, lines 27-35). With reference to claims 3 and 9:

Art Unit: 1745

Xing et al further teach that the metal foil layer is provided as a barrier to form a hermetic seal around cell 32. The thermoplastic adhesive and sealant is provided as an adhesive layer, which when heated, may bond onto itself or onto the metallic layer such that a hermetic seal is formed around cell 32 (COL 4, lines 35-40). It is further disclosed that heat and pressure are applied to the extending peripheral edges to cause the polymeric material and sealant material to soften and bond itself together to form a generally flunge about the periphery of cell 32 (COL 4, lines 50-64). Thus, heat and pressure are emoloved for sealing the buttery.

Therefore, the applied prior art does anticipate the present claims.

Claim Rejections - 35 USC 8 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States ober the Invention by the applicant for patent or (2) a patent grained on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filled under the resay defined in received as 55(4) ability was the effects for purposes of this subsection of an application filled in the United States only if the international application designated the United States and was published under Article 2(c) of such treatly the English Imanus.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not ideatically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as which matter as which exists a term in the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 6, 12 and 16 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Xine et al 6284406.

Xing et al disclose a battery embodiment wherein battery 20 which comprises an electrolytic cell 32 is contained within a package 34 formed of a flexible laminate material 36 (COL 3, lines 28-35). This package 34 encases cell 32, 32' or 32" is formed from a sheet of flexible laminate material which is, preferably, multilayered (COL 4, lines 28-40). Heat and pressure are applied to seal the battery (COL 4, line 35-40' COL 4, line 60-64). It is noted that Xing et al disclose a substantially identical structural product, that is, a sealed battery comprising substantially the same structural features of the claimed invention.

Examiner's note: It is noted that the instant claims are being construed as product-byprocess claims and that the product itself does not depend on the process of making it.

Accordingly, in a product-by-process claim, the patentability of a product does not depend on its
method of production. In that, it is further noted that the product in the instant claims is the same
as or obvious over the product of the prior art.

Therefore, the claims are anticipated by Xing et al. However, if the claims are not anticipated the claims are obvious as it has been held similar products claimed in product-by-process limitations are obvious (See MPEP 2113). In re Brown 173 USPQ 685 and In re Fessman 180 USPQ 324.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Alejandro whose telephone number is (571) 272-1282. The examiner can normally be reached on Monday-Thursday (8:30 am - 7:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on (\$71) 272-1292. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Raymond Alejandro Examiner Art Unit 1745